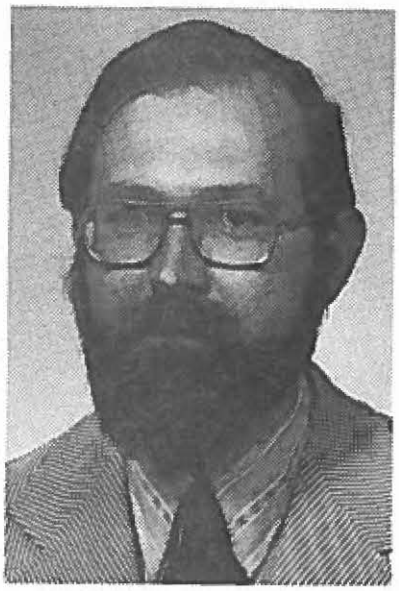
1984-01

Resume of James Grover Taylor, 1984-01

Taylor, James Grover

Monterey, California: Naval Postgraduate School

RESUME OF JAMES GROVER TAYLOR



James G. Taylor was born in 1939 in Jersey City, New Jersey. He attended Stanford University where he majored in petroleum engineering, and was elected to Phi Beta Kappa in October 1960. He received the degrees of Bachelor of Science (With Great Distinction) in June 1961, the Master of Science in June 1962, and the Doctor of Philosophy in September 1966. His doctoral program included a minor in mathematics. His Ph.D. research in the field of two-phase fuild flow through a porous medium involved the application of digital computing techniques and was under the direction of Professor Frank G. Miller.

Before joining the Naval Postgraduate School in September 1968, he worked in industry with the Field Research Laboratory of Mobil Oil Corporation in Dallas, Texas, and the Litton Scientific Support Laboratory assisting the U.S. Army Combat Developments Experimentation Command at Fort Ord, California.

Professor Taylor's research interests are in the Lanchester theory of combat and the quantitative study of conflict; in particular, the modelling, evaluation, and optimization of resource allocation. He has received recognition for his research on the Lanchester theory of combat: he was awarded the 1975 MAS Prize by the Military Applications Section (MAS) of the Operations Research Society of America (ORSA), and he has frequently been invited to deliver assessments about the state-of-the-art of combat modelling at both national and also international meetings. His other research interests are in modelling and optimizing resource allocation and in generalized control theory (both deterministic and stochastic optimal control, differential games, dynamic programming), particularly in the optimal control of deterministic time-sequential processes.

He is a member of the Operations Research Society of America, the Society for Industrial and Applied Mathematics, and Phi Beta Kappa.